

Earth-Rite® II PLUS

Static Ground Indicator & Interlock System



Precision and reliability of the Earth-Rite® II PLUS provides QHSE professionals and engineers who are tasked with protecting personnel and plant assets from the ignition hazards of static electricity during railcar, skid, and IBC loading/unloading operations.

Conductive metal objects like railcars, LACT units, skids and IBCs that contain electrostatically charged liquids can accumulate hazardous levels of electrostatic charge if they are not grounded.

This hazardous level of electrostatic charge can spark to other objects close by and is in excess of the minimum ignition energy of combustible gases and vapours present.

The ignition of combustible atmospheres by static electricity can be mitigated by ensuring that such objects are grounded.

The **Earth-Rite® II PLUS** is the ideal solution for grounding and bonding a broad range of equipment at risk of igniting combustible gases and vapours.

The **Earth-Rite® II PLUS** ensures that a continuously monitored 10 Ohm, or less, connection is present between the grounded object and a designated true earth grounding point. This feature provides equipment specifiers with the ability to demonstrate compliance with the grounding and bonding recommendations of IEC TS 60079-32*, NFPA 77* and API RP 2003*.

* **IEC 60079-32**, "Explosive atmospheres: electrostatic hazards, guidance".

* **NFPA 77**, "Recommended Practice on Static Electricity."

* **API RP 2003**, "Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents."

* Always check for and read the latest version of the International Standards, Guidance and/or Recommended Practices.



Earth-Rite® II PLUS
Static Grounding System

The Earth-Rite® II PLUS includes:

- **XP / Ex(d) Controller** with intrinsically safe monitoring circuit.
or
- **HAZLOC approved static dissipative GRP** controller with intrinsically safe monitoring circuit.
- **Ground Connection Junction Box** with clamp stowage point and quick release connector.
- **Universal Grounding Clamp** with various lengths of 2 conductor Cen-Stat protected cable.
- **Flexible HAZLOC installation options.**

Earth-Rite® II PLUS

Features and Benefits:

Attention grabbing high intensity LEDs

Three green LEDs continuously pulse informing operators that the object to be protected from static discharges is grounded. The red LED will illuminate continuously when the system is not in use, or when it detects the resistance in the static grounding loop is higher than 10 Ohms*.

Continuous Ground Loop Monitoring

Monitors the resistance of the ground loop from the grounded object through to the site's verified true earth grounding point. If the **Earth-Rite® II PLUS** detects that resistance in the ground loop is higher than 10 Ohms, it engages a pair of volt free changeover contacts that can be interlocked with the control and/or product transfer system to turn them ON or OFF.

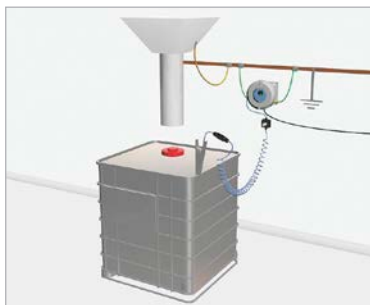
Two dry output contacts

The primary contact can be interlocked with electro-mechanical devices or PLC systems to shut down the flow of product. The secondary contact can interface with attention grabbing audible alarms or strobe lights to provide an extra layer of protection over the hazard.

Easy Installation

Simple wall mounted enclosures complemented by straightforward cabling and PCB system wiring requirements. Flexible hazardous location enclosure options and power supplies which can run off both 115 V / 230 V AC and 12 V / 24 V DC.

*The international recommended practice for controlling the ignition hazards of static electricity in HAZLOC atmospheres, IEC TS 60079-32 and NFPA 77, recommend that the maximum resistance between conductive metal plant equipment and verified true earth earthing points should not be more than 10 Ohms resistance.

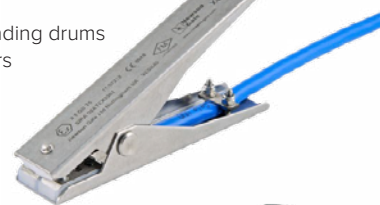


Filling IBCs, Totes, Drums, Containers and Rail Cars

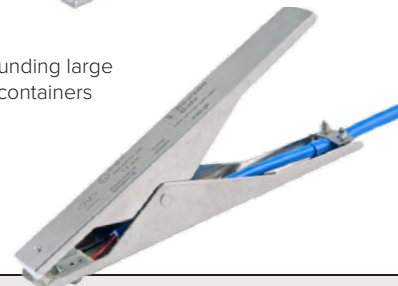


Medium and Large Heavy Duty Clamp/s
with Quick Connect and optional lengths of
Hytrel coated 2 core cable included.

Designed for grounding drums
and small containers



Designed for grounding large
drums and large containers



Options

- 50ft Self-Retracting Cable Reel
- 16ft, 32ft, 50ft lengths of Retractable Spiral Cable
- Large or Standard size 2 Pole Clamps
- Intrinsically Safe (I.S.) Switching PBC
- Explosion Proof Strobe Light
- IEC/Cenelec (European) and NEC/CEC (North American) versions available

Certification



Ingress Protection

Type 4X - IP 66

Power Supply

110/120 V or 220/240 V AC, 50-60 Hz 12 V or 24 V DC